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REMARKS

Summary

Applicant appreciates the consideration shown by the Examiner, as evidenced by the Office Action, mailed on October 7, 2005. In the subject Office Action Claims 6-12, 15 and 16 stand allowed and claims 3, 5 and 20 stand objected to as being dependent on a rejected base claim.

Claims 3-5, 13-14, and 18-20 have been amended and Claims 1, 2 and 17 have been canceled. Claims 3-16 and 18-20 remain pending in the application.

Applicant respectfully requests reconsideration of the application in light of the above amendments and the following remarks offered in response to the October 7, 2005, Office Action.

Claim Objections

Claims 13 and 14 were objected to because of informalities. Applicant has amended claims 13 and 14 to add "the range between the smallest and the largest convoluted data point within each of said plurality of segments" after "wherein in said calculating".

Rejections under 35 USC §112

Claims 13 and 14 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, the term "with the possible exception of the last segment" in each of claims 13 and 14 was deemed a relative term which renders the respective claims indefinite.

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Rejections under 35 USC §102

Claims 1, 2 and 17 were rejected under 35 U.S.C. 102(b) as being anticipated by Dowling (U.S. Patent No. 5,517,585). Applicant has canceled claims 1, 2 and 17 thereby rendering their respective rejections as moot.

Rejections under 35 USC §103(a)

Claims 4, 18 and 19 were rejected under 35 U.S.C. 103(a) as being unpatentable over Dowling in view of Chen et al. (U.S. 5,899,005).

Applicant has amended claim 4 to depend from claim 3 which in turn has been rewritten in independent form incorporating the elements of claim 1. Whether or not Dowling and Chen, alone or in combination, teach that which they are cited as teaching, Applicant submits that the references do not teach all the elements of amended claim 3. In particular, at the very least Dowling and Chen do not teach or otherwise suggest:

> "sub-sampling the sampled signal at a second sampling rate to generate a sub-sampled signal having a plurality of sub-sampled data points, the second sampling rate being less than the first sampling rate so that the number of sub-sampled data points is fewer than the number of sampled data points; and
>
> "convoluting the sub-sampled signal with a wavelet signal to generate a convoluted signal having a plurality of convoluted data points..."

Applicant has amended claims 18 and 19 to depend from claim 20 which in turn has been rewritten in independent form incorporating the elements of claim 17. Whether or not Dowling and Chen, alone or in combination, teach that which they are cited as teaching, Applicant submits that the references do not teach all the elements of amended claim 20. In particular, at the very least Dowling and Chen do not teach or otherwise suggest:

> sub-sampling said sampled data points at a second sampling rate to generate a plurality of sub-sampled data points; and
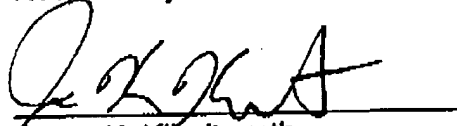
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subtracting each of the plurality of sub-sampled data points from 90 degrees to generate a plurality of transformed data points..."

For at least the reasons set forth above, Applicant submits claims 4, 18 and 19 are allowable.

Applicant respectfully requests reconsideration of this application. If the Examiner has any questions regarding the present patent application, the Examiner is invited to call Applicant's attorney.

Respectfully submitted,

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